

Title (en)  
THE USE OF L-BUTYLPHthalIDE IN THE MANUFACTURING OF MEDICINES FOR THE PREVENTION AND TREATMENT OF CEREBRAL ISCHEMIA DISEASE

Title (de)  
VERWENDUNG VON L-BUTYLPHthalID BEI DER HERSTELLUNG VON MEDIKAMENTEN ZUR PRÄVENTION UND BEHANDLUNG ZEREBRALER ISCHÄMIE

Title (fr)  
UTILISATION DE L-BUTYLPHthalIDE DANS LA FABRICATION DE MEDICAMENTS DESTINES A PREVENIR ET A TRAITER UNE MALADIE INDUITE PAR L'ISCHEMIE CEREBRALE

Publication  
**EP 1709962 A4 20100210 (EN)**

Application  
**EP 05700438 A 20050117**

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Abstract (en)  
[origin: EP1709962A1] The present invention relates to the use of L-butylphthalide in the manufacturing of medicaments for the prevention and treatment of cerebral ischemia-induced disease. Cerebral ischemia of the animals or human induces cerebral infarction, neurological deficit, memory disorder, cerebral edema, cerebral apoplexy, metabolic disorder of energy, changes of cerebral blood flow, and the like. The in vivo experiments show that L-butylphthalide can effectively reduce the above-mentioned adverse symptoms induced by cerebral ischemia.

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**A61K 31/343** (2013.01 - EP US); **A61P 7/10** (2017.12 - EP); **A61P 9/10** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 25/28** (2017.12 - EP)

Citation (search report)

- [E] EP 1757286 A1 20070228 - SHIJIAZHANG PHARMA GROUP [CN], et al
- [E] EP 1679070 A1 20060712 - SHIJIAZHANG PHARMA GROUP [CN], et al & ACTA PHARMACOLOGICA SINICA, vol. 21, no. 5, May 2000 (2000-05-01), pages 433 - 438, ISSN: 0253-9756 & CN 1257706 A 20000628 - INST OF MEDICINAL MATERIALS CH [CN] & YAOXUE XUEBAO, vol. 35, no. 6, June 2000 (2000-06-01), pages 408 - 412, ISSN: 0513-4870 & YAOXUE XUEBAO, vol. 31, no. 3, 1996, pages 166 - 170, ISSN: 0513-4870 & YAO XUE XUE BAO = ACTA PHARMACEUTICA SINICA DEC 1995, vol. 30, no. 12, December 1995 (1995-12-01), pages 896 - 903, ISSN: 0513-4870 & YAO XUE XUE BAO = ACTA PHARMACEUTICA SINICA 1996, vol. 31, no. 1, 1996, pages 18 - 23, ISSN: 0513-4870 & YAO XUE XUE BAO = ACTA PHARMACEUTICA SINICA 1995, vol. 30, no. 10, 1995, pages 741 - 744, ISSN: 0513-4870
- [X] CHANG QING ET AL: "Effects of chiral 3-n-butylphthalide on apoptosis induced by transient focal cerebral ischemia in rats", ACTA PHARMACOLOGICA SINICA AUG 2003, vol. 24, no. 8, 1 August 2003 (2003-08-01), pages 796 - 804, XP002558734
- [X] XU HAOLIANG ET AL: "EFFECTS OF 3-N-BUTYLPHthalDE ON PIAL ARTERIOLES INFOCAL CEREBRAL ISCHEMIA RATS", YAO HSUEH HSUEH PAO - ACTA PHARMACEUTICA SINICA, BEIJING, CN, vol. 34, no. 3, 1 March 1999 (1999-03-01), pages 172 - 175, XP008071717, ISSN: 0513-4870
- [X] DATABASE BIOSIS [online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; May 2000 (2000-05-01), XU HAO-LIANG ET AL: "Inhibitory effects of chiral 3-n-butylphthalide on inflammation following focal ischemic brain injury in rats", XP002558736, Database accession no. PREV200000331032
- [X] DATABASE EPODOC EUROPEAN PATENT OFFICE, THE HAGUE, NL; XP002558735
- [X] CHONG Z Z ET AL: "Effect of dl-n-butylphthalide on the activity of the choline acetyltransferase in ischemic brain and cultured neurons subjected to hypoglycemia/hypoxia", ZHONGGUO YAOXUE ZAZHI - CHINESE PHARMACEUTICAL JOURNAL, GAI KAN BIAN-WEI-HUI, BEIJING, CN, vol. 34, no. 8, 1 August 1999 (1999-08-01), pages 519 - 522, XP008102416, ISSN: 1001-2494
- [X] DATABASE BIOSIS [online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; June 2000 (2000-06-01), XIONG JIE ET AL: "The protective effect of butylphthalide against mitochondrial injury during cerebral ischemia", XP002559421, Database accession no. PREV200000498562
- [Y] DATABASE BIOSIS [online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1996, LIN J F ET AL: "Effect of DL-3-N-butylphthalide on delayed neuronal damage after focal cerebral ischemia and intrasynaptosomes calcium in rats", XP002558737, Database accession no. PREV199699158021
- [Y] DATABASE MEDLINE [online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; December 1995 (1995-12-01), LIU X G ET AL: "[Protective effect of dl-3-n-butylphthalide on ischemic neurological damage and abnormal behavior in rats subjected to focal ischemia]", XP002558738, Database accession no. NLM8712015
- [Y] DATABASE MEDLINE [online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 1996, ZHANG L Y ET AL: "[Effect of dl-3-n-butylphthalide (NBP) on life span and neurological deficit in SHRsp rats]", XP002558739, Database accession no. NLM8762459
- [Y] DATABASE MEDLINE [online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 1995, FENG Y P ET AL: "[Effect of DL-butylphthalide (NBP) on mouse brain energy metabolism in complete brain ischemia induced by decapitation]", XP002559422, Database accession no. NLM8701729
- [Y] YAN C H ET AL: "Effects of dl-3-n-butylphthalide on regional cerebral blood flow in right middle cerebral artery occlusion rats", ZHONGGUO YAO LI XUE BAO = ACTA PHARMACOLOGICA SINICA MAR 1998, vol. 19, no. 2, 1 March 1998 (1998-03-01), pages 117 - 120, XP002558745
- [Y] CHONG Z ET AL: "dl-3-n-butylphthalide reduces brain damage in mice with closed head injury.", CHINESE MEDICAL JOURNAL JUL 2000, vol. 113, no. 7, July 2000 (2000-07-01), pages 613 - 616, XP002559419, ISSN: 0366-6999
- [Y] YU S R ET AL: "[Facilitated performance of learning and memory in rats by 3-n-butyl phthalide]", ZHONGGUO YAO LI XUE BAO = ACTA PHARMACOLOGICA SINICA SEP 1988, vol. 9, no. 5, September 1988 (1988-09-01), pages 385 - 388, XP002559420, ISSN: 0253-9756
- [PX] PENG YING ET AL: "Effects of chiral NBP on cerebral infarct volume due to transient focal cerebral ischemia", ZHONGGUO XIN YAO ZAZHI - CHINESE NEW DRUGS JOURNAL, GAI-KAN BIANJIBU, BEIJING, CN, vol. 14, no. 4, 1 January 2005 (2005-01-01), pages 420 - 423, XP001539275, ISSN: 1003-3734
- See references of WO 2005072725A1

Citation (examination)

- DATABASE MEDLINE [online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; June 1997 (1997-06-01), DENG W ET AL: "Effect of dl-3-n-butylphthalide on brain edema in rats subjected to focal cerebral ischemia.", XP002716864, Database accession no. NLM11324493

- WANG XING-WANG: "3-n-Butylphthalide: Cerebral antiischemic", DRUGS OF THE FUTURE, vol. 25, no. 1, January 2000 (2000-01-01), pages 16 - 23, XP002716865, ISSN: 0377-8282 & CHINESE MEDICAL SCIENCES JOURNAL = CHUNG-KUO I HSÜEH K'O HSÜEH TSA CHIH / CHINESE ACADEMY OF MEDICAL SCIENCES JUN 1997, vol. 12, no. 2, June 1997 (1997-06-01), pages 102 - 106, ISSN: 1001-9294

Cited by

US10463614B2

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